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**Notice of Allowability**

Application No.

10/681,006

Examiner

Jenise E. Jackson

Applicant(s)

CROMER ET AL.

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/15/07.
2. ☒ The allowed claim(s) is/are 1-25.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

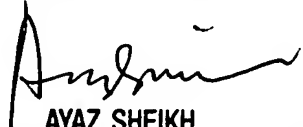
4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
AYAZ SHEIKH

SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

***Examiner's Amendment***

1. On page 1 of specification, serial numbers and filing dates of related applications is missing. The Examiner has written in the serial numbers and filing dates of related applications. [0001] The present invention is related to the subject matter of the following commonly assigned, co-pending United States patent applications: Ser. No. **10680977** (Docket No. RPS920030120) entitled "CRUABLE U-NII WIRELESS RADIO WITH SECURE, INTEGRAL ANTENNA CONNECTION VIA VALIDATION REGISTERS IN U-NII WIRELESS READY DEVICE" and filed **10/07/2003**; and Ser. No. **10/680974** (Docket No. RPS920030119) entitled "CRUABLE DUAL MODE U-NII WIRELESS RADIO WITH SECURE, INTEGRAL ANTENNA CONNECTION IN U-NII WIRELESS READY DEVICE" and filed **10/7/ 2003**. The content of the above-referenced applications is incorporated herein by reference.

***Reasons for Allowance***

2. ***Status of Application:*** The Examiner previously rejected claims 1-10 under obviousness-type double patenting over claims 1-2 of U.S. Patent No. 7,072,691. Claims 1, 3, 7-8, 19-21 and 25 were rejected(6/25/07) under 102(b) as being anticipated by Quinn. Claims 2,6, 11-13, 15-16 were rejected(6/25/07) under 103, Quinn in view of Kobayashi. Claims 1-25 are allowable for the following reasons listed below:

3. Claims 1-25 are allowable for the following limitations, prior art fails to disclose or suggest, "during boot up of the device, completing an authentication process utilizing a table within a BIOS of the device of paired radio-antenna ids for authorized radio-combinations, where the authentication process verifies that the radio is an authorized radio for utilization with

the antenna within the device under UNII standards; "when...authorized, completing a boot of the device and enabling U-NII communication...U-NII transmitter meeting an integral requirement", and "wherein when the authentication process fails to verify that the radio is authorize, completing the boot, and preventing the use of the radio with the antenna, such that a breach of the integral requirement is not enabled"; "authentication mechanism associated with the BIOS that initiates a radio-to-device verification process during boot up of the device that verifies that the radio is an authorized radio for utilization with the embedded antenna and within the device according to pre-established U-NII standards". An example of prior art that fails to disclose or suggest, "during boot up of the device, completing an authentication process utilizing a table within a BIOS of the device of paired radio-antenna ids for authorized radio-combinations, where the authentication process verifies that the radio is an authorized radio for utilization with the antenna within the device under UNII standards; "when...authorized, completing a boot of the device and enabling U-NII communication...U-NII transmitter meeting an integral requirement", and "wherein when the authentication process fails to verify that the radio is authorize, completing the boot, and preventing the use of the radio with the antenna, such that a breach of the integral requirement is not enabled"; "authentication mechanism associated with the BIOS that initiates a radio-to-device verification process during boot up of the device that verifies that the radio is an authorized radio for utilization with the embedded antenna and within the device according to pre-established U-NII standards", is Quinn. Quinn discloses a state information table in which the transceivers send information upon system startup to determine the transceiver in control, and enable the appropriate transceiver radio/antenna logic. Quinn does not disclose

actual authentication of the radio to determine if the radio may even be utilized within the device.

4. Another example of prior art that fails to disclose or suggest, "during boot up of the device, completing an authentication process utilizing a table within a BIOS of the device of paired radio-antenna ids for authorized radio-combinations, where the authentication process verifies that the radio is an authorized radio for utilization with the antenna within the device under UNII standards; "when...authorized, completing a boot of the device and enabling U-NII communication...U-NII transmitter meeting an integral requirement", and "wherein when the authentication process fails to verify that the radio is authorize, completing the boot, and preventing the use of the radio with the antenna, such that a breach of the integral requirement is not enabled"; "authentication mechanism associated with the BIOS that initiates a radio-to-device verification process during boot up of the device that verifies that the radio is an authorized radio for utilization with the embedded antenna and within the device according to pre-established U-NII standards". An example of prior art that fails to disclose or suggest, "during boot up of the device, completing an authentication process utilizing a table within a BIOS of the device of paired radio-antenna ids for authorized radio-combinations, where the authentication process verifies that the radio is an authorized radio for utilization with the antenna within the device under UNII standards; "when...authorized, completing a boot of the device and enabling U-NII communication...U-NII transmitter meeting an integral requirement", and "wherein when the authentication process fails to verify that the radio is authorize, completing the boot, and preventing the use of the radio with the antenna, such that a breach of the integral requirement is not enabled"; "authentication mechanism associated with the BIOS

that initiates a radio-to-device verification process during boot up of the device that verifies that the radio is an authorized radio for utilization with the embedded antenna and within the device according to pre-established U-NII standards" is Bae. Bae discloses a method and system for generating a security access key value for a radio frequency(RF) card in order to read different kinds of RF cards issued by different card issuing companies and collecting charge for the use of each RF card using a single card terminal. Bae discloses the card terminal includes an antenna, the antenna generates a radio frequency signal for activating the RF card and sequentially receives a chip serial number and card information from the RF card. The RF modulation/demodulation module demodulates and RF signal received through the antenna into digital information and modulates digital key value information received from the SAM thorough the CPU into an RF signal.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenise E. Jackson whose telephone number is (571) 272-3791. The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number:  
10/681,006  
Art Unit: 2131

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



December 18, 2007



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